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RESET - RSR A/D Calibration Procedure

I. Purpose:

The purpose of this procedure is to describe the steps performed by the RESET team to calibrate the MFRSR data logger A/D.

II. Cautions and Hazards:

None.

III. Requirements:

- Do not attempt this procedure when it is raining or likely to rain.
- Calibrated precision voltmeter.
- Calibrated precision voltage source.

IV. Procedure:

A. Steps:

- 1. Notify data system personnel of calibration.
- 2. Disconnect the sensor from the MFRSR datalogger.
- 3. Turn on the voltage standard and set it for 4.096 V.
- 4. Attach the voltage standard to the logger input.
- 5. Read the voltage with the calibrated voltmeter at IC-10 (see diagram) and log the voltage measured.
- 6. Log the output of the datalogger.
- 7. If the measured voltage at IC-10 is different from 4.096 V and the output is different from 4096, adjust the potentiometer R-12 (see diagram) until the output of the datalogger is 4096.

V. References:

- 1. "Automated Multifilter Rotating Shadow-Band Radiometer: An Instrument for Optical Depth and Radiation Measurements," by L. Harrison, J. Michalsky and J. Berndt, Applied Optics, 33(22), 1994.
- 2. "Yankee Environmental Systems Optical Calibration Facilities," Yankee Environmental Systems Report, 1994.

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VI. Attachments:

1. MFRSR Logger Printed Circuit Board

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Attachment 1

MFRSR LOGGER PRINTED CIRCUIT BOARD R/D Reference Voltage Heater Voltage Filter Detector Logger Board Gain Resistors ADC Reference Voltage Adjustment Heater Voltage Adjustment

